INDIAN SCHOOL AL WADI AL KABIR
PRE-MID TERM EXAMINATION 2024-25
ARTIFICIAL INTELLIGENCE (417)
SET 1

Class: X   **Max Marks: 30**
Date: 06-06-2024   **Time: 1 Hour**

General Instructions:

1. Please read the instructions carefully.

2. This Question Paper consists of **23 questions** in two sections: Section A & Section B.

3. Section A has Objective type questions whereas Section B contains Subjective type questions.

4. **Out of the given (14+9=) 23 questions, a candidate has to answer (14 + 6 =) 20 questions in the allotted (maximum) time of 1 hour.**

5. All questions of a particular section must be attempted in the correct order.

6. **SECTION A - OBJECTIVE TYPE QUESTIONS (14 MARKS):**

    i.   This section has 14 questions.

    ii.   Marks allotted are mentioned against each question/part.

    iii. There is no negative marking.

    iv.   Do as per the instructions given.

7. **SECTION B – SUBJECTIVE TYPE QUESTIONS (16 MARKS):**

    i.   This section has 9 questions.

    ii.   A candidate has to do 6 questions.

    iii. Do as per the instructions given.

    iv.   Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

	Answer all the questions (1 x 14 =14 marks)	
1	Which of these sentences is capitalized correctly? (a) Ravi and i are going to the movies. (b) Salim is visiting India in july. (c) The Tiger is a strong animal. (d) She is arriving on Monday.	1
2	Choose the correct example of oral communication. (a) Reports (b) Newspapers able to (c) Face-to-face conversation (d) Notes	1
3	You need to apply leave at work? Which method of communication will you use? (a) e-mail (b) Poster (c) Newsletter (d) Blog	1

4	Which of these sentences is in active voice?
	    (a) A movie is being watched by them.
	    (b) The car was repaired by Raju.
	    (c) He is reading a book.
	    (d) The thief was being chased by a policeman.
		1

5	Which of these is NOT a common communication barrier?
	    (a) Linguistic barrier
	    (b) Interpersonal barrier
	    (c) Financial barrier
	    (d) Organizational barrier
		1

6	Artificial Intelligence can be used in which of the following fields?
	    a) Speech Recognition
	    b) Natural Language Processing
	    c) Vision Systems
	    d) All of the above
		1

7	A large event management company has developed an AI system that recruits event hosts. It was found that the model discriminated against men. This is an example of _____
	    (a) AI access
	    (b) AI Bias
	    (c) AI Discrimination
	    (d) Gender Discrimination
		1

8	Match Column A with Column B: | Column A	Column B
---	---
1. Face recognition machine	(i) Not AI
2. Automatic door	(ii) AI
3. Text Editors or Autocorrect	

4. Automatic washing machine	|
	
	    (a) 1 -> (i) ; 2 -> (ii) ; 3 -> (i) ; 4 -> (ii)
	    (b) 1 -> (ii) ; 2 -> (i) ; 3 -> (ii) ; 4 -> (i)
	    (c) 1 -> (i) ; 2 -> (i) ; 3 -> (ii) ; 4 -> (i)
	    (d) 1 -> (ii) ; 2 -> (i) ; 3 -> (i) ; 4 -> (ii)
		1

9	DeepMind AI technology was created by_____
	    (a) Google
	    (b) Infer vision
	    (c) BBC
	    (d) IBM Watson
		1

10	Assertion A: Machine Learning and Deep Learning are part of Artificial intelligence
	Reason R: Everything that is Machine Learning will be Deep Learning.
	    (a) Both A and R are correct R is the correct explanation of A
	    (b) Both A and R are correct R is not the correct explanation of A
	    (c) A is correct R is incorrect
	    (d) A is incorrect R is correct
		1

11	The Rock Paper Scissors game is based on_____.
	    (a) Computer Vision
	    (b) Data Science
	    (c) Natural Language Processing
	    (d) None of these
		1

12	The concept of _____ is used to apply face filters on various social media platforms.
	     (a) NLP
	     (b) Computer Vision
	     (c) Data Science
	     (d) Block chain technology
		1

13	When a machine possesses the ability to mimic human traits, i.e., make decisions, predict the future, learn and improve on its own, it is said to have:
	     (a) Computational skills
	     (b) Learning Capability
	     (c) Artificial Intelligence
	     (d) Cognitive Processing
		1

14	Which domain of AI is used for interacting with virtual assistants such as Siri and Alexa
	     (a) Machine Learning
	     (b) Computer Vision
	     (c) Natural Language Processing
	     (d) Technical Vision
		1

SECTION B: SUBJECTIVE TYPE QUESTIONS

Answer any 4 out of the given 6 questions (2 x 4 = 8 marks)

Answer each question in 20 – 30 words.

Q. 15	What are the elements of communication?	2
Q. 16	Describe the four characteristics of a good feedback.	2
Q. 17	Explain any four examples of applications of AI that we see around us.	2
Q. 18	How do machines become artificially Intelligent?	2
Q. 19	In communication, what does 7Cs stand for? Explain any 2Cs	2
Q. 20	Pick the odd one out and justify your answer: **a**. Snap Chat Filter **b**. Face Lock in Phone **c**. Chatbot **d.** Image search Option	2

Answer any 2 out of the given 3 questions in 50– 80 words each (4x 2 = 8 marks)

Q. 21	Jagan attend a seminar on Artificial Intelligence and has now been asked to write a report on his learnings from the seminar. Being a non-technical person, he understood that the AI enabled machine uses data of different formats in many of the daily based applications but failed to sync it with the right technologies and express the details. Help Jagan to list the three domains of AI and the data that is used in these domains.	4
Q. 22	What is Intelligence? Explain any three types of Intelligences that are mainly perceived by human beings.	4
Q. 23	Differentiate between Artificial Intelligence vs Machine Learning vs Deep Learning.	4

****************BEST WISHES****************